FOMTEC© AFFF 1% Ultra LT

Foam Concentrate

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Fomtec AFFF 1% Ultra LT is an aqueous film forming foam concentrate (AFFF) consisting of a blend of fluorocarbon-, hydrocarbon surfactants and various solvents and stabilisers. Only C6 Pure fluorosurfactants are used in Fomtec AFFF-formulations. Fomtec AFFF 1% Ultra LT utilises the unique film forming effect to cut off oxygen supply to the fire and the oleophobic properties of the foam enables a stable foam blanket to suppress reignition of the fire.

- Short chain C6 Pure fluorochemistry
- Approved to EN 1568, UL 162, ULC, FM 5130, ICAO, GOST
- Tested and approved for sprinkler applications
- Freeze protected
- Suitable for Class A and B fires
- Low and medium expansion foam

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DESCRIPTION

Fomtec AFFF 1% Ultra LT should be used at 1% proportioning (1 part concentrate and 99 parts of water). May be used with all water types. Fomtec AFFF 1% Ultra LT can be stored as premix when blended with fresh water.
For use on Class A type fires, induction ratio of 0,3% to 0,5% is recommended depending on application and discharge device.

APPLICATION

Fomtec AFFF 1% Ultra LT is suited whenever a low proportioning ratio, a low freezing point and high fire rating is required.
Fomtec AFFF 1% Ultra LT is tested according to EN 1568, UL 162 7th Edition, ULC and FM 5130 for use on class B hydrocarbon fuel fires such as oil, diesel, gasoline and aviation fuels. The product is also International Civil Organisation (ICAO) level B for use in aircraft rescue and firefighting (ARFF) applications.

Fomtec AFFF 1% Ultra LT is effective against class A fires such as wood, paper, textiles etc.
Typical applications include high risk installations such as:

- Petrochemical and chemical plants
- Tank farms
- Warehouses
- Foam sprinkler systems
- Airports and ARFF-vehicles

Refer to the FM Approval Guide and UL Listing for approved fuel hazards and application rate as well as approved system components for use with this concentrate.

SPRINKLER APPLICATION

Sprinkler applications are especially challenging for any foam due to the low operating pressure and the very low expansion reached. Applying foam through a sprinkler is a forceful application method and requires foam that can handle direct application and partial submersion into the fuel without losing its fire performance and burnback resistance. Foams that shall be regarded as suitable for sprinkler applications shall also be able to withstand limited time of water deluge directly onto the foam blanket and still maintain the burnback properties. Fomtec AFFF 1% Ultra LT has passed above described tests showing very good extinguishing and burnback properties. Refer to the FM Approval Guide and UL Listing for acceptable system configurations used with this concentrate and specific sprinkler SINs and their associated minimum application rates

FIRE PERFORMANCE & FOAMING

The fire performance of this product has been measured and documented according to “International Approvals” stated in this document. The design parameters depend on type of system and application. The use of the product should follow design guidelines. The foaming properties are depending on equipment used and other variables such as water and ambient temperatures. Average expansion 7:1, average 25% drainage time 2:50 minutes using UNI 86 test nozzle according to EN 1568-3.

TYPICAL DATA	
Appearance	Pale yellow liquid
Specific gravity at 20°C	1,050 ± 0,020 g/ml
Viscosity at 25°C spindle #2, 60 rpm	15 ± 5 mPa·s
Viscosity at 20°C spindle #2, 60 rpm	20 ± 5 mPa
Viscosity at -18°C spindle #2, 60 rpm	220 ± 10 mPa·
Surface tension	≤ 19 mN/m
pH	7,9 - 8,9
Freezing point	-38°C
UL-listed temperature range*	-18°C to 49°C
Recommended storage temperature	-37°C to 55°C
Suspended sediment (v/v)	< 0,1%

**This product is tested according to UL-standard and has passed the specific circumstances in the test.*

EQUIPMENT

Fomtec AFFF 1% Ultra LT can easily be proportioned at the correct ratio using conventional proportioning equipment. The equipment should be designed to the foam type.
Fomtec AFFF 1% Ultra LT is suitable for use in Type II (gentle application) and Type III (direct application) discharge devices as well as sprinklers according to EN 13565-2. It can be used in low and medium expansion applications with all conventional aspirating and non-aspirating discharge devices.
Fomtec AFFF 1% Ultra LT is also suitable for use in CAF-systems.

COMPATIBILITY

Fomtec AFFF 1% Ultra LT can be used together with foam compatible powders and other expanded foams.
It is suited for all water types.
For mixing with other concentrates, contact Fomtec for advise and guidance. For material compatibility please refer to our Fomtec Technical Advices FTA 20 addressing the topic.

ENVIRONMENTAL

Fomtec AFFF 1% Ultra LT is formulated using raw materials specially selected for their fire performance and their environmental profile. All raw materials are registered in European REACH-database. Fomtec AFFF 1% Ultra LT is non-toxic, biodegradable and each individual component is fully tested and documented.
Fomtec only use C6 Pure fluorosurfactants in our AFFF formulations. Our film forming (AFFF) products contains no PFOS or PFOA in accordance with US EPA Stewardship Programme 2010/15 and EU Directive 2017/1000. More details can be found in the Material Safety Datasheet (MSDS).
The disposal of spills of concentrate or premix foam solution should be made in accordance with local regulations. For more detailed information please consult our Fomtec Technical Advices FTA 40.

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STORAGE / SHELF LIFE

Stored in original unbroken packaging the product will have a long shelf life. Shelf life in excess of 10 years will be found in temperate climates. As with all foams, shelf life will be dependent on storage temperatures and conditions.
For storage recommendations and material compatibility please refer to our Fomtec Technical Advices FTA 10 addressing the topic.
All foam concentrates should be tested annually. Testing should be carried out by an approved laboratory certified to assess firefighting foam quality according to relevant standards, such as NFPA 11, EN 13565-2, EN 1568, FM 5130 or ICAO.

INSPECTION/TESTING/ MAINTENANCE

All foam concentrates should be tested annually. Testing should be carried out by an approved laboratory certified to assess firefighting foam quality according to relevant standards, such as NFPA 11, EN 13565-2, EN 1568, FM 5130 or ICAO.
Storage containers should be inspected and reevaluated for the suitability of the storage location regarding temperature fluctuations (temperature should be as stable as possible).
Exposure to direct sunlight should be avoided.

PACKAGING

We supply this product in 25 litre and 5 US gallon cans, 200 litre and 55 US gallon drums, 1000 litre and 265 US gallon IBC containers. Larger bulk supply is available on special request.

Volume per piece	Packaging	Part no	Approx. shipping weight*	Dimensions (mm) L x W x H
25 ltr	Can	10-1026-01	27,5 kg	295 x 260 x 441
200 ltr	Drum	10-1026-02	218,5 kg	581 x 581 x 935
1000 ltr	Container	10-1026-04	1110 kg	1200 x 1000 x 1150
5 US gal.	Can	10-1026-XX	21,2 kg	295 x 260 x 441
55 US gal.	Drum	10-1026-XX	226,9 kg	581 x 581 x 935
265 US gal.	Container	10-1026-XX	1115 kg	1200 x 1000 x 1150
Bulk	Special request	10-1026-XX		

** including packaging.*

INTERNATIONAL APPROVALS

- Underwriters Laboratories, UL 162 7th edition. Refer to the UL Listing for systems and devices that are approved for use with this concentrate. Refer to the system and device data sheets from Viking or KCA, NFPA 11, and relevant local standards for correct system design.
- ULC listed
- FM Approved. Refer to the FM Approval Guide for systems and devices that are approved for use with this concentrate. Refer to the system and device data sheets from Viking or KCA, NFPA 11, FM Global Property Loss Prevention Data Sheets, and relevant local standards for correct system design. FM Approval of the foam extinguishing system is contingent upon the design, installation, testing and maintenance performed in accordance with NFPA 11 and/or FM Global Property Loss Prevention Data Sheet 4-12, Foam/Water Sprinkler Systems.
- EN 1568 part 3
  Class IB Fresh water/Class IB Sea water
- ICAO level B (4th Edition 2014)
- GOST

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